



Sheet 1 of 2

FORM PTO-1449
(Rev. 2-32)U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

04-372
(400/137)

Serial No.

10/698,311

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

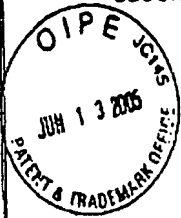
McSwiggen et al.

Filing Date:

October 31, 2003

Group:

1632



U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial	Document Number	Filing Date	Name	Class	Subclass	Publication Date If Appropriate
SW	US 2003/0190635	10/2003	McSwiggen et al.			
SW	US 2003/0206887	11/2003	Morrissey et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
1.	1325955	07/09/03	EP (Klippel-Giese et al.)					
2.	95/04142	02/09/95	WO (Robinson)					
3.	99/04819	02/04/99	WO (Klimuk et al.)					
4.	99/55857	11/04/99	WO (Beigelman et al.)					
5.	01/097850	12/27/01	WO (Siemeister et al.)					
6.	02/07747	01/31/02	WO (King)					
7.	02/10378	02/07/02	WO (Cowser et al.)					
8.	02/096927	12/05/02	WO (Escobedo et al.)					

EXAMINER	DATE CONSIDERED
SW	10/3/05

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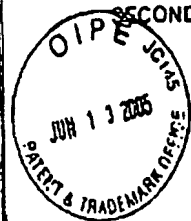
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9.	03/068797	08/21/03	WO (Rossi et al.)				
10.	03/070910	08/28/03	WO (McSwiggen et al.)				
11.	03/080638	10/02/03	WO (Lacasse et al.)				
12.	04/043977	05/27/04	WO (Prakush et al.)				
13.	04/072261	08/26/04	WO (Li et al.)				
16.	00200687	08/1996	JP (Hosoda et al.)				


Not Considered
Japanese

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

14.	Anderson et al., "Bispecific Short Hairpin siRNA Constructs Targeted to CD4, CXCR4, and CCR5 Confer HIV-1 Resistance," <i>Oligonucleotides</i> , 13:303-312 (2003)
17.	Bayard et al., "Increased stability and antiviral activity of 2'-O-phosphoglyceryl derivatives of (2'-5')oligo(adenylate)," <i>Eur. J. Biochem.</i> , 142(29):291-298 (1984)
15.	International Search Report for PCT/US2004/016390 mailed March 31, 2005

EXAMINER <u>SW</u>	DATE CONSIDERED <u>10/3/05</u>
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U.S. PATENT APPLICATION DOCUMENTS

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JW	*	10/151,116	05/17/02	Matulic-Adamic et al.			
JW	*	10/201,394	08/13/01	Vargeese et al.			
JW	*	10/427,160	04/30/03	Vargeese et al.			
JW	*	2001/0007666	07/12/01	Hoffman et al.			
JW	*	2002/0130430	12/29/00	Caster			
	*	60/682,404	04/26/98	Thompson et al.	Cover sheet only		
JW	*	60/358,580	02/20/02	Beigelman et al.			
JW	*	60/363,124	03/11/02	Beigelman et al.			
JW	*	60/386,782	06/06/02	Beigelman et al.			
JW	*	60/393,796	07/03/02	Beigelman et al.			
JW	*	60/399,348	07/29/02	Beigelman et al.			
JW	*	60/402,996	08/13/02	Usman et al.			
JW	*	60/406,784	08/29/02	Beigelman et al.			
JW	*	60/408,378	09/05/02	Beigelman et al.			
JW	*	60/409,293	09/09/02	Beigelman et al.			

EXAMINER	<i>Louis Watterberg</i>	DATE CONSIDERED	5/27/05
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<i>JS</i>	•	60/440,129	01/15/03	Beigelman et al.			
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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>JS</i>	•	5,138,045	08/11/92	Cook et al.			
<i>JS</i>	•	5,214,136	05/25/93	Lin et al.			
<i>JS</i>	•	5,334,711	08/02/94	Sproat			
<i>JS</i>	•	5,624,803	04/29/97	Noonberg et al.			
<i>JS</i>	•	5,627,053	05/06/97	Usman et al.			
<i>JS</i>	•	5,631,360	05/20/97	Usman et al.			
<i>JS</i>	•	5,670,633	09/23/97	Cook et al.			
<i>JS</i>	•	5,716,824	02/10/98	Beigelman et al.			
<i>JS</i>	•	5,792,847	08/11/98	Buhr et al.			
<i>JS</i>	•	5,804,683	09/08/98	Usman et al.			
<i>JS</i>	•	5,814,620	09/29/98	Robinson et al.			
<i>JS</i>	•	5,831,071	11/03/98	Usman et al.			
<i>JS</i>	•	5,854,038	12/29/98	Cech et al.			
<i>JS</i>	•	5,889,136	03/30/99	Scaringe et al.			

EXAMINER <i>John Wollinsky</i>	DATE CONSIDERED <i>5/27/05</i>
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UW	•	5,898,031	04/27/99	Crooke				
UW	•	5,902,880	05/11/99	Thompson et al.				
UW	•	5,998,203	12/07/99	Adamic et al.				
UW	•	6,001,311	12/14/99	Brennan				
UW	•	6,005,087	12/21/99	Cook et al.				
UW	•	6,008,400	12/28/99	Scaringe et al.				
UW	•	6,054,576	04/25/00	Bellon et al.				
UW	•	6,107,094	08/22/00	Crooke				
UW	•	6,111,086	08/29/00	Scaringe et al.				
UW	•	6,117,657	09/12/00	Usman et al.				
UW	•	6,146,886	11/14/00	Thompson et al.				
UW	•	6,153,737	11/28/00	Manoharan et al.				
UW	•	6,162,909	12/19/00	Bellon et al.				
UW	•	6,180,613	01/30/01	Kaplitt et al.				
UW	•	6,235,310	05/22/01	Wang et al.				
UW	•	6,235,886	05/22/01	Manoharan et al.				
UW	•	6,300,074	10/09/01	Gold				
UW	•	6,303,773	10/16/01	Bellon et al.				
UW	•	6,335,434	01/01/02	Guzaev et al.				

EXAMINER	<i>John W. Otterberg</i>	DATE CONSIDERED	<i>5/27/05</i>
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JW	*	6,353,098	03/05/02	Usman et al.				
JW	*	6,362,323	03/26/01	Usman et al.				
JW	*	6,395,713	05/28/02	Belgelman et al.				
JW	*	6,437,117	08/20/02	Usman et al.				
JW	*	6,447,796	09/10/02	Vook et al.				
JW	*	6,469,158	10/22/02	Usman et al.				
JW	*	6,476,205	11/05/02	Buhr et al.				
JW	*	6,506,559	06/14/03	Fire et al.				
JW	*	6,528,631	03/04/03	Cook et al.				
JW	*	6,586,524	07/01/03	Sagara et al.				

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
JW	1.	4037501		AU (Graham et al.)				
JW	2.	2,359,180	08/03/00	CA (Kreutzer et al.)				
	3.	1144023 B1	01/29/02	EP (Kreutzer et al.)	Non English document			
JW	4.	89/02439	03/23/89	WO (Arnold et al.)				

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John H. Heltz

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JW	5.	90/14090	11/29/90	WO (Gillespie et al.)				
JW	6.	91/03162	03/21/91	WO (Rossi et al.)				
JW	7.	92/07065	04/30/92	WO (Eckstein et al.)				
JW	8.	93/15187	08/05/93	WO (Usman et al.)				
JW	9.	93/23569	11/25/93	WO (Draper et al.)				
JW	10.	94/01550	01/20/94	WO (Agrawal et al.)				
JW	11.	94/02595	02/03/94	WO (Sullivan et al.)				
JW	12.	95/06731	03/09/95	WO (Usman et al.)				
JW	13.	95/11910	05/04/95	WO (Dudycz et al.)				
JW	14.	96/10390	04/11/96	WO (Ansell et al.)				
JW	15.	96/10391	04/11/96	WO (Choi et al.)				
JW	16.	96/10392	04/11/96	WO (Holland et al.)				
JW	17.	96/18736	06/20/96	WO (Beigelman, et al.)				
JW	18.	97/26270	07/24/97	WO (Beigelman et al.)				
JW	19.	98/13526	04/02/98	WO (Wooff et al.)				
	20.	99/07409	02/18/99	WO (Deschamps	Non-English Doc			
				Depaillette et al.)				
JW	21.	99/14226	03/25/99	WO (Wengel et al.)				
JW	22.	99/31262	06/24/99	WO (Barry et al.)				
JW	23.	99/32619	07/01/99	WO (Fire et al.)				

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JW	24.	99/49029	09/30/99	WO (Graham et al.)					
JW	25.	99/53050	10/21/99	WO (Waterhouse et al.)					
JW	26.	99/54459	10/28/99	WO (Thompson et al.)					
JW	230.	99/61631	12/02/99	WO (Heifetz et al.)					
JW	27.	00/01846	01/13/00	WO (Plaetinck et al.)					
JW	28.	00/44895	08/03/00	WO (Kreutzer et al.)					
JW	29.	00/44914	08/03/00	WO (Li et al.)					
JW	30.	00/49035	08/24/00	WO (Jen Sheen)					
JW	31.	00/53722	09/14/00	WO (O'Hare and Normand)					
JW	32.	00/63364	10/26/00	WO (Pachuk et al.)					
JW	33.	00/66604	11/09/00	WO (Wengel et al.)					
JW	34.	01/04313	01/18/01	WO (Satishchandran et al.)					
JW	35.	01/29058	04/26/01	WO (Mello et al.)					
JW	36.	01/36646	05/25/01	WO (Zernicka-Goetz et al.)					
JW	37.	01/38551	05/31/01	WO (Grossniklaus)					
JW	38.	01/42443	06/14/01	WO (Churikov et al.)					
JW	39.	01/49844	07/12/01	WO (Driscoll et al.)					
JW	40.	01/53475	07/26/01	WO (Cogoni et al.)					
JW	41.	01/68836	09/20/01	WO (Beach et al.)					

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3w	42.	01/70944	09/27/01	WO (Honer et al.)				
3w	43.	01/70949	09/27/01	WO (Graham et al.)				
	44.	01/72774	10/04/01	WO (Deak et al.)				
	45.	01/75164	10/11/01	WO (Tuschi et al.)				
	46.	01/92513	12/06/01	WO (Arndt et al.)				
	47.	01/96584	12/20/01	WO (Mushegian et al.)				
	✓ 48.	02/22636	03/21/02	WO (Bennett et al.)				
	✓ 49.	02/38805	05/16/02	WO (Echeverri et al.)				
	✓ 50.	02/44321	06/06/02	WO (Tuschi et al.)				
	✓ 51.	02/55692	07/18/02	WO (Kreutzer et al.)				
	✓ 52.	02/55693	07/18/02	WO (Kreutzer et al.)				
	✓ 53.	PCT/US03/05028	02/20/03	WO (McSwiggen et al.)				
	✓ 54.	PCT/US03/05346	02/20/03	WO (McSwiggen et al.)				
	✓ 55.	03/046185	06/05/03	WO (Wang et al.)				
✓	56.	03/047518	06/12/03	WO (Wang et al.)				

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3w	57.	Akhtar and Juliano, "Cellular Uptake and Intracellular Fate of AntiSense Oligonucleotides," Trends Cell Biol. 2:139-144 (1992)
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Jw	58. Aldrian-Herrada et al., "A peptide nucleic acid (PNA) is more rapidly internalized in cultured neurons when coupled to a <i>retro-inverso</i> delivery peptide. The antisense activity depresses the target mRNA and protein in magnocellular oxytocin neurons," <u>Nucleic Acids Research</u> 26:4910-4916 (1998)
	59. Allshire, "RNAi and Heterochromatin - A Hushed-up Affair," <u>Science</u> 297:1818-1819 (2002)
	60. Andrews and Faller, "A rapid micropreparation technique for extraction of DNA-binding proteins from limiting numbers of mammalian cells," <u>Nucleic Acids Research</u> 19:2499 (1991)
	61. Baenziger and Fiete, "Galactose and N-Acetylgalactosamine-Specific Endocytosis of Glycopeptides by Isolated Rat Hepatocytes," <u>Cell</u> 22:611-620 (1980)
	62. Bahramian et al., "Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1(I)$ Collagen by a Homologous Transcriptionally Self-Silenced Transgene," <u>Molecular and Cellular Biology</u> , 19:274-283 (1999)
	63. Bannai et al., "Effect of Injection of Antisense of Oligodeoxynucleotides of GAD Isozymes into Rat Ventromedial Hypothalamus on Food Intake and Locomotor Activity," <u>Brain Research</u> 784:305-315 (1998)
	64. Bannai et al., "Water-absorbent Polymer as a Carrier for a Discrete Deposit of Antisense Oligodeoxynucleotides in the Central Nervous System," <u>Brain Research Protocols</u> 3:83-87 (1998)
	65. Bass, "The short answer," <u>Nature</u> 411:428-429 (2001)
	66. Beigelman et al., "Chemical Modification of Hammerhead Ribozymes," <u>The Journal of Biological Chemistry</u> 270:25702-25708 (1995)
	67. Bellon et al., "Amino-Linked Ribozymes: Post-Synthetic Conjugation of Half-Ribozymes," <u>Nucleosides & Nucleotides</u> 16:951-954 (1997)
V	68. Bellon et al., "Post-synthetically Ligated Ribozymes: An Alternative Approach to Iterative Solid Phase Synthesis," <u>Bioconjugate Chem.</u> 8:204-212 (1997)

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EW	69.	Bernstein et al., "Role for a Bidentate Ribonuclease in the Initiation Step of RNA Interference," <i>Nature</i> 409:363-366 (2001)
	70.	Bettinger et al., "Size Reduction of Galactosylated PEI/DNA Complexes Improves Lectin-Mediated Gene Transfer into Hepatocytes," <i>Bioconjugate Chem.</i> , 10, 558-561 (1999)
	71.	Boado et al., "Drug Delivery of Antisense Molecules to the Brain for Treatment of Alzheimer's Disease and Cerebral AIDS," <i>Journal of Pharmaceutical Sciences</i> 87:1308-1315 (1998)
	72.	Boado, "Antisense drug delivery through the blood-brain barrier," <i>Advanced Drug Delivery Reviews</i> 15:73-107 (1995)
	73.	Bonifati et al., "Mutations in the <i>DJ-1</i> Gene Associated with Autosomal Recessive Early-Onset Parkinsonism," <i>Science</i> , doi:10.1126/science.1077209 (2002)
	74.	Brennan et al., "Two-Dimensional Parallel Array Technology as a New Approach to Automated Combinatorial Solid-Phase Organic Synthesis," <i>Biotechnology and Bioengineering (Combinatorial Chemistry)</i> 61:33-45 (1998)
	75.	Broadus et al., "Distribution and stability of antisense phosphorothioate oligonucleotides in rodent brain following direct intraparenchymal controlled-rate infusion," <i>Neurosurg. Focus</i> 3(5):Article 4 (1997)
	76.	Broadus et al., "Distribution and stability of antisense phosphorothioate oligonucleotides in rodent brain following direct intraparenchymal controlled-rate infusion," <i>J Neurosurg</i> 88:734-742 (1998)
	77.	Brody and Gold, "Aptamers as therapeutic and diagnostic agents," <i>Reviews in Molecular Biotechnology</i> 74:5-13 (2000)
✓	78.	Burgin et al., "Chemically Modified Hammerhead Ribozymes with Improved Catalytic Rates," <i>Biochemistry</i> 35:14090-14097 (1996) (volume no. mistakenly listed as 6)
✓	79.	Burlina et al., "Chemical Engineering of RNase Resistant and Catalytically Active Hammerhead Ribozymes," <i>Bioorganic & Medicinal Chemistry</i> 5:1999-2010 (1997)

EXAMINER <i>Ron Wolley</i>	DATE CONSIDERED 5/31/05
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80.	Caruthers et al., "Chemical Synthesis of Deoxyoligonucleotides and Deoxyoligonucleotide Analogs," <i>Methods in Enzymology</i> 211:3-19 (1992)
81.	Chen et al., "Multitarget-Ribozyme Directed to Cleave at up to Nine Highly Conserved HIV-1 env RNA Regions Inhibits HIV-1 Replication-Potential Effectiveness Against Most Presently Sequenced HIV-1 Isolates," <i>Nucleic Acids Research</i> 20:4581-4589 (1992)
82.	Chiu and Rana, "siRNA function in RNAi: A chemical modification analysis," <i>RNA</i> , 9, 1034-1048 (2003)
83.	Choi et al., "Effect of Poly(ethylene glycol) Grafting on Polyethylenimine as a Gene Transfer Vector <i>in vitro</i> ," <i>Bull. Korean Chem. Soc.</i> , 22, 46-52 (2001)
84.	Chowrira et al., " <i>In Vitro</i> and <i>In Vivo</i> Comparison of Hammerhead, Hairpin, and Hepatitis Delta Virus Self-Processing Ribozyme Cassettes," <i>J. Biol. Chem.</i> 269:25856-25864 (1994)
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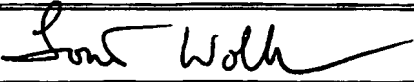
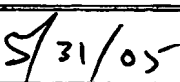
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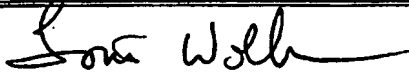
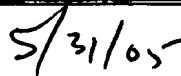
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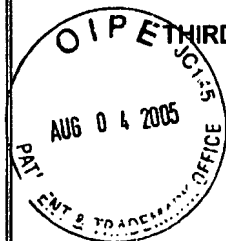
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THIRD SUPPLEMENTAL INFORMATION DISCLOSURE
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McSwiggen et al.

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